Deepwater Horizon Incident, Gulf of Mexico

Region 6 REOC Update

Subject: **Region 6 Update # 38**
Deepwater Horizon Incident, Gulf of Mexico
Date: June 4, 2010
To: Incident Command
Thru: Planning Section
From: Situation Unit
Operational Period: May 3, 2010 0700 – June 6, 2010 0700
Reporting Period: May 3, 2010 1300 – June 4, 2010 1300

1. Background

Site Name:	Deepwater Horizon Incident	**FPN#:**	N10036
Mobilization Date:	4/27/2010	**Start Date:**	4/28/2010

2. Current Situation

- The incident status summary as reported in the BP Situation Executive Summary as of 0600 on 06/04:
    - 19,217 personnel and 1,876 offshore vessels are currently responding to the incident.
    - Over 2.04 million feet of containment boom and 2.30 million feet of sorbent boom have been deployed.
    - Over 356,000 barrels of an oil-water mix have been recovered.
    - On 6/03, no controlled burns were conducted. A cumulative total of 126 controlled burns have been conducted.
    - On 6/03, BP continued Top Cap operations by completing the shear cut of the riser and installing the Lower Main Riser Package hat.
    - On 6/03, the Enterprise began conducting oil recovery operations. Enterprise plans to continue oil recovery operations of 6/04.

Summary of Dispersant Data (from UC Situation Executive Summary)

	TOTALS for 6/03 (gal.)	**CUMULATIVE TOTALS as of 6/03 (gal.)**
Surface	6,200	765,468
Subsurface	10,241	256,216

2.1 (USCG) Incident Command Post (Houma, LA).

- On 6/03, EPA met with NOAA personnel at Houma Command to discuss their potential need for SCAT assistance.

- BP reported using approximately 1900 gallons of aerial dispersants on 6/03 in the area north and east of the source location. No controlled burning operations were conducted on 6/03.

2.2 (USCG) Area Command Post (Robert, LA)

- On 6/03, EPA continued to coordinate with NOAA and BP to ensure that data collected on vessels is being captured and distributed appropriately.

2.3 REOC (Dallas, TX)

- On 6/04, the EPA DATA team will provide a Google Earth file which will include layer files for sample locations and location types for public dissemination. Within the file, the DATA team will also provide layer files for the TAGA data through 5/31/2010 and a link to the EPA ASPECT. They will also provide layer files to the NGA services for Boom and the Oil spill extent. By 6/11, The DATA team will provide photos and a link to the EPA.GOV BP spill site and provide a timeline for rolling out additional links for Data or other response information.

2.4 Air Monitoring/Sampling

- EPA continues to conduct air monitoring and sampling in Venice operations area (VOCs and Particulates):
    - Venice, LA - V02 – located at USCG;
    - Boothville, LA - V03 – located at Welding Supply Co.;
    - Fort Jackson, LA - V05 – located at Fort Jackson, LA.

- EPA continues to conduct air monitoring and sampling in Chalmette operations area (VOCs and Particulates):
    - Poydras, LA - C02 - located at Fire Station number 8;
    - Chalmette, LA - C04 - located at Fire Station on Aycock St.;
    - Hopedale, LA, - C05 - located at Fire Station number 11.

- Each Venice and Chalmette air monitoring location has 5 pieces of air equipment:
    - EBAM (Particulate Monitors);
    - AreaRae/MultiRae - monitoring VOCs;
    - MiniRae - monitoring VOCs/H_2S/CO/O_2;
    - PQ200 - samples for PM2.5;
    - SUMMA Canister - sample for VOCs.

- Air Monitoring Locations C04 and V02 are also each equipped with 1 Polyurethane Foam (PUF) High Volume Air Samplers for SVOC sampling.

- EPA continues to conduct air monitoring and sampling in the Grand Isle operations area (VOCs)
    - Fourchon, LA - GI01 - Fourchon Beach
    - Grand Isle, LA - GI02 - located at Grand Isle State Park

- Each Grand Isle air sampling locations is equipped with 1 Summa Canister for VOC sampling.

- The Grand Isle Air Team plans to establish an additional air monitoring/sampling location equipped with a PUF High Volume Air Sampler when access is gained to the appropriate property.

- Air monitoring and sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the OSC at the Mobile Command Posts in Venice and Chalmette.

- Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 hours each day and available to EPA Headquarters, REOC, and external response partners.

- Air monitoring exceedences of the VOC action level were noted for Location V03 at 1500 hours and for Location V05 for 1600 hours. The exceedences were caused by instrument failure due to rain events.

- Data gaps were noted for Location C04 from 0900 hours to 1200 hours for oxygen and VOCs. Data gaps were also noted for Locations C05 from 0900 hours to 1000 hours for oxygen and VOCs. The cause of the data gaps is currently under review.

EPA summary of air monitoring/sampling activities:

Air Monitoring & Samples	DataRAM (PM10)	AreaRae	SUMMA Canisters	PM2.5	PUF	TOTALS FOR 6/03
Venice	3 locs/24-hr	3 locs/24-hr	3	3	1	7
Chalmette	3 locs/24-hr	3 locs/24-hr	3	3	1	7
Grand Isle	-	-	2	-		2
TOTAL TO DATE	6 locs/24-hr	6 locs/24-hr	324	192	2	

*QAQC samples not included in sample count

2.5 Water/Sediment Sampling

- EPA continues to conduct water sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.

- Representatives from the Water Division and the REOC Environmental Units from R6 and R4 conduct a conference call three times a week with the HQ EOC to discuss the coordination and consistency of water and sediment sampling across the Deepwater Horizon Incident Response.

- On 6/03, Venice Water Operations Team 1 collected 5 water samples from previously sampled locations near Pass A Loutre. The team also conducted reconnaissance activities for oil impacted areas near the sample locations.

- On 6/03, Venice Water Operations Team 2 collected 3 water samples from locations along the western coastline of Venice, LA. The team also conducted reconnaissance activities for oil impacted areas near the sample locations.

- On 6/03, the Grand Isle Water Operations Team collected 1 water sample and 1 oil sample from oil impacted areas in the Grand Isle area.

- On 6/03, the Cocodrie Water Operations Team cancelled daily operations due to severe thunderstorms in the area.

EPA summary of water/sediment activities:

Water/Sediment Samples	Water	Sediment	TOTALS FOR 6/03
Venice	8	0	8
Chalmette	0	0	0
Cocodrie	0	0	0
Grand Isle	2	0	2
TOTAL TO DATE	239	71	

*QAQC samples not included in sample count

2.6 TAGA

- On 6/03, TAGA performed mobile monitoring for oil dispersant indicator compounds in southern MS and AL from Dauphin Island, AL to the Stennis Space Center. No oil dispersant indicator compounds were observed.

- On 6/04, TAGA will perform mobile monitoring for oil dispersant indicator compounds in southern LA from the Stennis Space Center to Cocodrie, LA.

2.7 ASPECT

- On 6/03, ASPECT cancelled daily operations due to weather conditions.

- On 6/04, ASPECT began to fly over the western delta area. ASPECT reported the presence of heavy oil approximately 50 miles ESE of Venice, LA. ASPECT flew over the rig site and reported that the flare on the support ship is twice the size of previous observations.

2.8 Water Quality Protection Division Update

- A Water Quality Protection Division situation update is attached.

3. EPA Assets

3.1 Current Assets Deployed

- Activated in Dallas, TX
  - REOC activated
  - SRICT activated
  - RRT activated

Deployed Personnel

Personnel	Dallas, TX	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Venice, LA	Cocodrie, LA	Grand Isle, LA	Slidell, LA	TOTALS
EPA										
- OSC	4	2	1		1	1	1	1		11
- RSC	13		1							14
- PIO		1								1
- Other	4	1		1						6
START	9	1	1		12	16	3	12		54
ERT Contractor										
TAGA Personnel									5	5
ASPECT Personnel									4	4
Other										
TOTALS	30	5	3	1	13	17	4	13	9	95

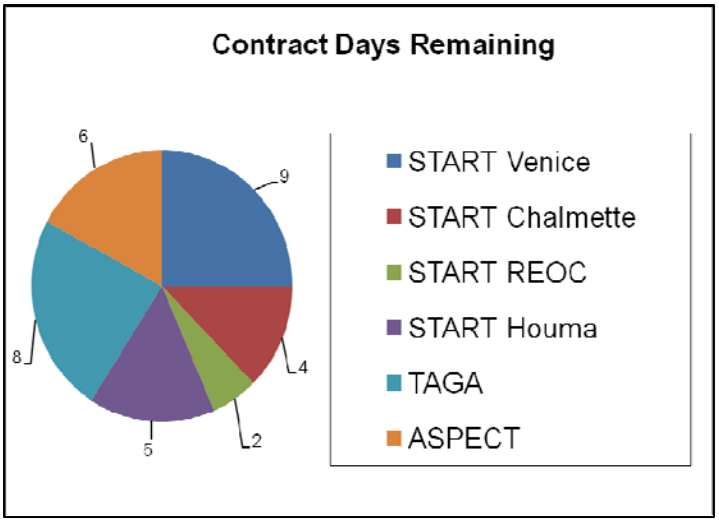
Deployed Equipment

Equipment	Dallas, TX	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Venice, LA	Cocodrie, LA	Grand Isle, LA	Slidell, LA	TOTALS
Mobile Command Post						1				1
ASPECT									1	1
TAGA Bus									1	1
LRV		1			1					2
Gooseneck Trailer						1				1
20 KW Generator						1				1
Boat (R7)								1		1

* One TAGA bus has been assigned to Region 4 Operations

4. Daily Cost Estimates

	Authorized Ceiling	EPA Est. Personnel Cost	EPA Est. Travel Cost	Estimated Contract/ Purchase Spent	TOTAL Estimated Expenditure	Balance (Ceiling minus Expenditures)	TOTAL Contract/ Purchase OBLIGATIONS.	Est. Daily Burn Rate	Un-Obigated Dollars Remaining	Dollars Obigated Not Spent
USCG PRFA FPN N10036 $7,178,429 Total $1,000,000 4/28/10 $4,000,000 5/05/10 $178,429.10 5/17/10 $2,000,000 5/28/10	$6,345,853	$780,703	$260,610	$3,893,408	$4,934,721	$1,411,132	$5,245,278	$248,916	$59,262	$1,351,870
TOTAL OPA FUNDED	$6,345,853	$780,703	$260,610	$3,893,408	$4,934,721	$1,411,132	$5,245,278	$248,916	$59,262	$1,351,870
Region 6 Indirect Rate 13.12%	$832,576									
Louisiana Total	$7,178,429	$780,703	$260,610	$3,893,408	$4,934,721	$1,411,132	$5,245,278	$248,916	$59,262	$1,351,870



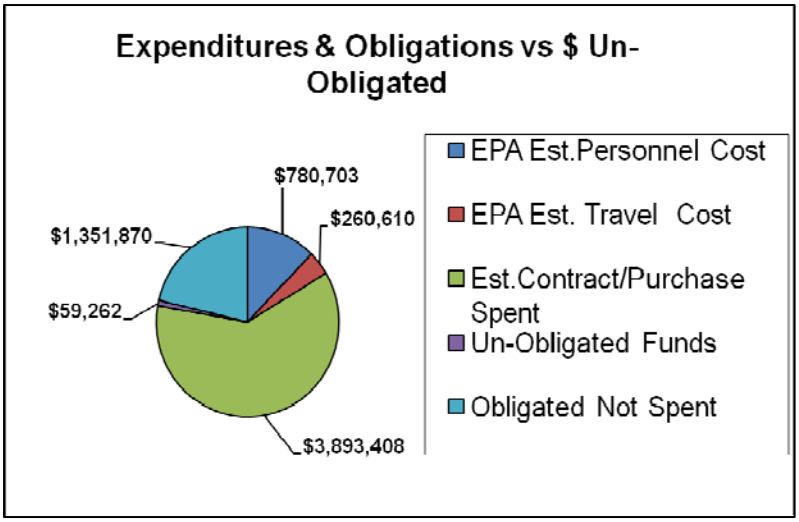


Figure 1 View of an EPA water sampling team collecting a water sample on 6/01.

Monitoring/Sampling Locations

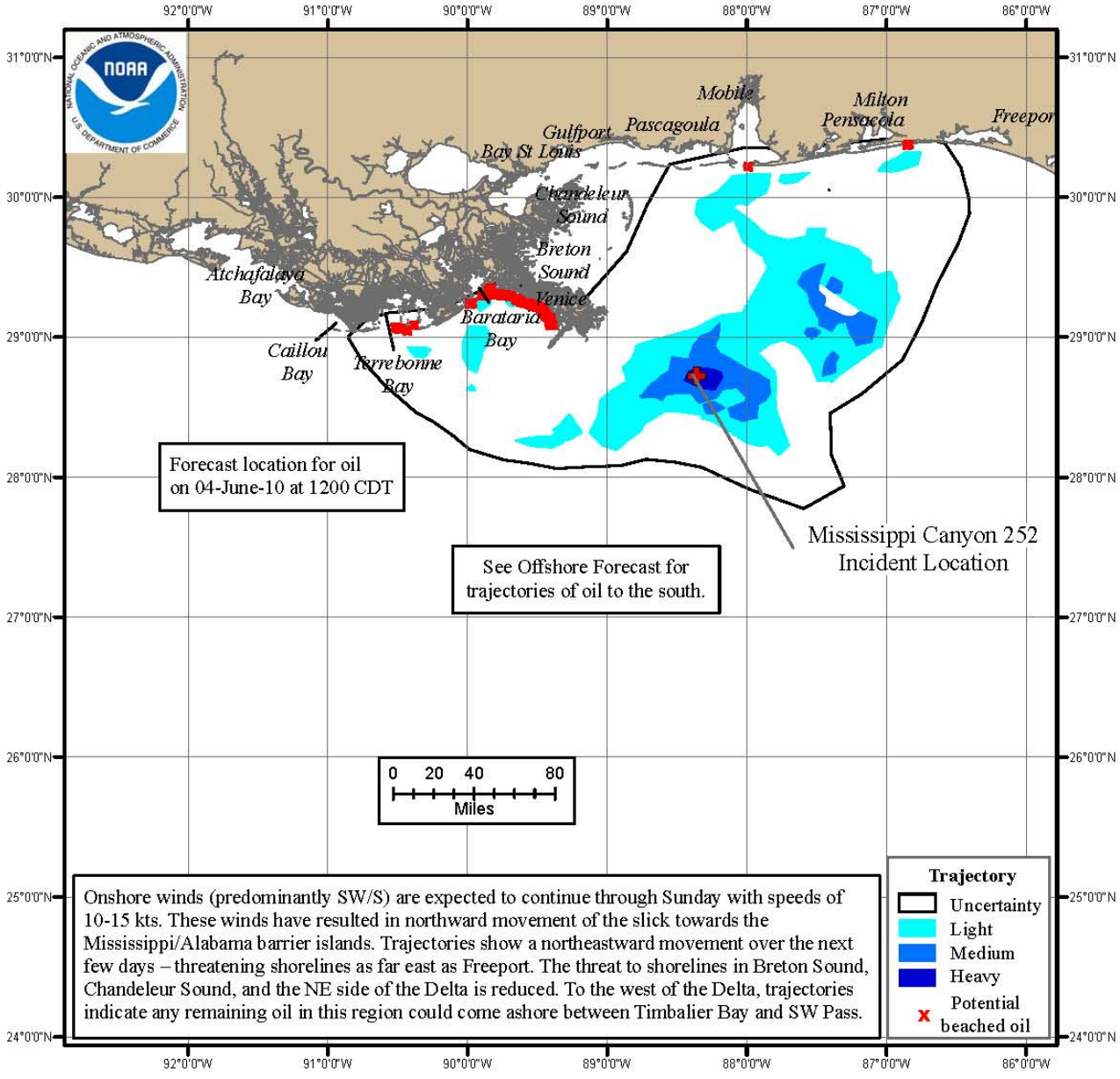
Nearshore Surface Oil Forecast Deepwater Horizon MC252

NOAA/NOS/OR&R

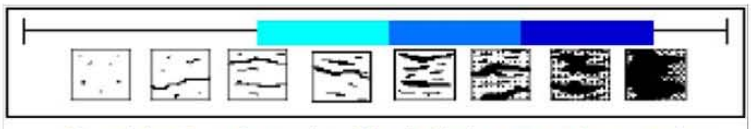
Nearshore

Estimate for: 1200 CDT, Friday, 6/04/10
Date Prepared: 2100 CDT, Thursday, 6/03/10

This forecast is based on the NWS spot forecast from Thursday, June 3 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, NAVO/NRL) and HFR measurements. The model was initialized from Wednesday-Thursday satellite imagery analysis (NOAA/NESDIS) and Thursday overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.



Onshore winds (predominantly SW/S) are expected to continue through Sunday with speeds of 10-15 kts. These winds have resulted in northward movement of the slick towards the Mississippi/Alabama barrier islands. Trajectories show a northeastward movement over the next few days – threatening shorelines as far east as Freeport. The threat to shorelines in Breton Sound, Chandeleur Sound, and the NE side of the Delta is reduced. To the west of the Delta, trajectories indicate any remaining oil in this region could come ashore between Timbalier Bay and SW Pass.



this scale bar shows the meaning of the distribution terms at the current time

Next Forecast:
June 4th PM